attachment #2

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Range: from begin to end Reverse complemented strand Features: SNP CDD MGC HPRD

1: Z49227. Reports A.thaliana mRNA f...[gi:6469339] Links

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VERSION     Z49227.2  GI:6469339
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SOURCE      Arabidopsis thaliana (thale cress)
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            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
            rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
REFERENCE   1
  AUTHORS   Kampfenkel,K., Mohlmann,T., Batz,O., Van Montagu,M., Inze,D. and
            Neuhaus,H.E.
  TITLE     Molecular characterization of an Arabidopsis thaliana cDNA encoding
            a novel putative adenylate translocator of higher plants
  JOURNAL   FEBS Lett. 374 (3), 351-355 (1995)
  MEDLINE   96069943
   PUBMED   7589569
  REMARK    (sites)
REFERENCE   2
  AUTHORS   Kampfenkel,K.K.
  TITLE     Direct Submission
  JOURNAL   Submitted (05-MAY-1995) Kampfenkel K.K., Universiteit Gent,
            Laboratorium voor Genetika, K.L. Ledeganckstraat 35, Gent, Belgium,
            B-9000 Gent
  REMARK    revised by [3]
REFERENCE   3  (bases 1 to 2181)
  AUTHORS   Kampfenkel,K.K.
  TITLE     Direct Submission
  JOURNAL   Submitted (26-NOV-1999) Kampfenkel K.K., Universiteit Gent,
            Laboratorium voor Genetika, K.L. Ledeganckstraat 35, Gent, Belgium,
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COMMENT     On Nov 27, 1999 this sequence version replaced gi:1051108.
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Jan 27 2005 17:14:21

Refine Search

Search Results -

Terms	Documents
L4 and plastidial	0

Database:
- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search: L8

Refine Search | Recall Text | Clear | Interrupt

Search History

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L8	L4 and plastidial	0	L8
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L6	L4 and plant	54	L6
L5	L4 and Arabidopsis	13	L5
L4	ATP/ADP or ADP/ATP and transformation	131	L4
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L2	L1 and translocator.clm .	0	L2
L1	ATP/ADP adj (translocator or transporter) and transformation and plant	8	L1

END OF SEARCH HISTORY

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NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 26	CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT)

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=> s (ADP/ATP or ATP/ADP) and (translocator or transporter) and plant and transform?
'ATP' IS NOT A VALID FIELD CODE
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=> d l3 1-9 ti

L3 ANSWER 1 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
TI The N-terminal extension of the ADP- ***ATP*** ***translocator*** is not involved in targeting to ***plant*** mitochondria in vivo.

L3 ANSWER 2 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
TI Structural and functional implications of the instability of the ADP/ ***ATP*** ***transporter*** purified from mitochondria as revealed by FTIR spectroscopy.

L3 ANSWER 3 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
TI The secondary structure of the inhibited mitochondrial ADP/ ***ATP*** ***transporter*** from yeast analyzed by FTIR spectroscopy.

L3 ANSWER 4 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
TI Altered plastidic ATP/ ***ADP*** - ***transporter*** activity influences potato (Solanum tuberosum L.) tuber morphology, yield and composition of tuber starch.

L3 ANSWER 5 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
TI Occurrence of two plastidic ATP/ ***ADP*** ***transporters*** in Arabidopsis thaliana L molecular characterisation and comparative structural analysis of similar ATP/ ***ADP*** ***translocators*** from plastids and Rickettsia prowazekii.

L3 ANSWER 6 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
TI Cloning of the gene encoding the mitochondrial adenine nucleotide carrier of Schizosaccharomyces pombe by functional complementation in Saccharomyces cerevisiae.

L3 ANSWER 7 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
TI The N-terminal extension of the ADP/ ***ATP*** ***translocator*** is not involved in targeting to ***plant*** mitochondria in vivo.

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
TI Transgenic ***plants*** with increased starch and/or oil production expressing the Arabidopsis thaliana plastidial ADP/ ***ATP*** ***translocator***

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
TI The N-terminal extension of the ADP/ ***ATP*** ***translocator*** is not involved in targeting to ***plant*** mitochondria in vivo

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L3 ANSWER 4 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
ACCESSION NUMBER: 1999:67822 BIOSIS
DOCUMENT NUMBER: PREV199900067822
TITLE: Altered plastidic ATP/ ***ADP*** - ***transporter*** activity influences potato (Solanum tuberosum L.) tuber morphology, yield and composition of tuber starch.
AUTHOR(S): Tjaden, Joachim; Moehlmann, Torsten; Kampfenkel, Karlheinz; Henrichs, Gudrun; Neuhaus, H. Ekkehard [Reprint author]
CORPORATE SOURCE: Pflanzenphysiol., Fachbereich Biol./Chem., Univ. Osnabrueck, Barbarastr. 11, D-49069, Osnabrueck, Germany
SOURCE: Plant Journal, (Dec., 1998) Vol. 16, No. 5, pp. 531-540. print.
ISSN: 0960-7412.
DOCUMENT TYPE: Article
LANGUAGE: English

ENTRY DATE: Entered STN: 16 Feb 1999
Last Updated on STN: 16 Feb 1999

AB The metabolic function of the plastidic ATP/ ***ADP*** ***transporter*** (AATP) in heterotrophic plastids was examined in transgenic potato ***plants*** that exhibited increased or decreased amounts of the protein. Altered mRNA levels correlated with activities of the plastidic ATP/ ***ADP*** ***transporter*** . Potato tubers with decreased plastidic ATP/ ***ADP*** ***transporter*** activities exhibited reduced starch contents whereas sense lines accumulated increased amounts of tuber starch. Starch from wild-type tubers had an amylose content of 18.8%, starch from antisense ***plants*** contained 11.5-18.0% amylose, whereas starch from sense ***plants*** had levels of 22.7-27.0%. The differences in physiological parameters were accompanied with altered tuber morphology. These changes are discussed with respect to the stromal ATP supply during starch biosynthesis.

L3 ANSWER 5 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
ACCESSION NUMBER: 1998:175430 BIOSIS
DOCUMENT NUMBER: PREV199800175430
TITLE: Occurrence of two plastidic ATP/ ***ADP*** ***transporters*** in Arabidopsis thaliana L molecular characterisation and comparative structural analysis of similar ATP/ ***ADP*** ***translocators*** from plastids and Rickettsia prowazekii.
AUTHOR(S): Moehlmann, Torsten; Tjaden, Joachim; Schwoeppe, Christian; Winkler, Herbert H.; Kampfenkel, Karlheinz; Neuhaus, H. Ekkehard [Reprint author]
CORPORATE SOURCE: Pflanzenphysiol., Univ. Osnabrueck, Barbarastr. 11, D-49069 Osnabrueck, Germany
SOURCE: European Journal of Biochemistry, (March, 1998) Vol. 252, No. 3, pp. 353-359. print.
CODEN: EJBCAI. ISSN: 0014-2956.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 20 Apr 1998
Last Updated on STN: 20 Apr 1998

AB Recently, we sequenced a cDNA clone from Arabidopsis thaliana L. encoding an ATP/ ***ADP*** ***transporter*** protein (AATP1) located in the plastid envelope membrane. The deduced amino acid sequence of AATP1 exhibits a high degree of similarity (>66%) to the ATP/ ***ADP*** ***transporter*** from the obligate intracellular gram-negative bacterium Rickettsia prowazekii. Here we report a second plastidic ATP/ADP carrier from A. thaliana (AATP2). As deduced from the amino acid sequence, AATP2 exhibits 77.6% identity to AATP1 and 36% to the rickettsial protein. Hydropathy analysis indicates that all three translocators are highly hydrophobic membrane proteins, which exhibit marked similarities and differences. The AATP1 translocator lacks the sixth transmembrane domain that is present in AATP2 and the bacterial transporter in R. prowazekii. In contrast to AATP1 and the bacterial transport protein, only AATP2 exhibits a truncated C-terminal end. To compare the general biochemical properties of AATP2 with the known transport properties of AATP1 we cloned the entire AATP2 cDNA into plasmid pJT118, leading to the presence of an additional N-terminal histidine tag of 10 amino acids. For heterologous expression of His10-AATP2 we chose the Escherichia coli strain C43, which was reported recently to allow overproduction of eukaryotic membrane transport proteins. After ***transformation*** and subsequent induction by isopropylthio-2-D-

galactopyranoside intact E. coli cells harbouring plasmid pJT118 showed import of radioactively labelled ATP and ADP. As deduced from a Lineweaver-Burk analysis His10-AATP2 exhibited apparent Km values for ATP and ADP of 22 muM and 20 muM, respectively. Import of ADP into His10-AATP2-expressing E. coli cells occurred at a rate of 24 nmol cntdot mg protein-1 cntdot h-1, which was about threefold faster than import of ATP. These biochemical characteristics are similar to transport properties of the heterologously expressed His10-AATP1 protein.

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:736889 CAPLUS
DOCUMENT NUMBER: 132:942
TITLE: Transgenic ***plants*** with increased starch and/or oil production expressing the Arabidopsis thaliana plastidial ADP/ ***ATP*** ***translocator***
INVENTOR(S): Neuhaus, Ekkehard; Moehlmann, Torsten; Graeve-Kampfenkel, Karl-Heinz; Tjaden, Joachim; Schell, Jozef; Martini, Norbert
PATENT ASSIGNEE(S): Planttec Biotechnologie G.m.b.H. Forschung & Entwicklung, Germany; Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften E.V.
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958654	A2	19991118	WO 1999-EP3292	19990512
WO 9958654	A3	20000309		
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PRIORITY APPLN. INFO.:			DE 1998-19821442 A	19980513
			WO 1999-EP3292 W	19990512

AB The invention relates to transgenic ***plant*** cells and ***plants*** which, compared to wild type cells or ***plants*** , exhibit an increased yield, esp. an increased oil and/or starch content, and which preferably synthesize a modified starch with increased amylose content. The described ***plants*** exhibit an increase or a decrease of the plastidial ADP/ ***ATP*** ***translocator*** activity as a

result of the ***transformation*** with Arabidopsis thaliana ADP/
ATP ***translocator***

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